Dam ID: 🔐	100066	ANY.
_zaver	ANAWol	

STATE OF HAWAII - DLNR DAM SAFETY INSPECTION SHEET

Inspect	ion No:	
Date:	4/8/06	<u> </u>
	* *.	

Persons Present	Affilia	ation			D.	_
					Phone No	umber
JOHN DILLON STAFFORD SOTO		ACE NR				
:						
	n previous day □ Rainy ents:					Sunny 🗆 Dry
General: (Information current) Dam/Res. Name Owner	y on file, update as require	ed)				
			Owne		·····	
Lesse			OWITE	PII		
O & M Contractor			C6356	/IPh		
				_l _		
County				tude		
Tax Map Key(s)						(decimal)
Dam Status	Hazard	Potential		Dam Size		
Year Completed	Dam Le	ngth	ft.		ht	ft.
Normal Storage	ac.ft. Max. St	orage	ac.ft.	Max Surfa	ace Area	30
Offsite Drainage Area	<u>mi.</u> Spillway	Type		Max. Spilly	vay Q	cfs
Owner owns land under da	m facility:	Landina and a second of the se				
Emergency Action Plan on	file with the Departm	ent:		***		
Reports on file with the Dep	partment:					
SEE STATE JUVE	NTORY INFO					

2. Q						Inspection No: Date:
	uestions for	· Owner's Rep.:	Vac	No	Unknown	Commente
C		Plans Available	162			Comments
	ite / Facility I					
	· ·	Maintenance Manua				
	mergency A					
		/ Improvements				
		ine Inspections				
		ine Maintenance				
	ehicle acces					□ Not accessible □ With Standard car □ Requires 4-Wheel Drive
		heavy rains				The requires 4-vineer Drive
	-	spillway is flowing				Troubles 4-Wileel Dilve
	ther Studies	•				☐ Not accessible ☐ With Standard car ☐ Requires 4-Wheel Drive
					4	☐ Phase I ☐ Phase II ☐ Hydraulics ☐ Stability ☐ Hazard ☐ Seismi ☐ Other:
In	ncident Histor	ry			Ø	☐ Breached ☐ Overtop ☐ Slide ☐ Down stream Flooding ☐ Other:
R	eservoir's Cu	urrent Use				☐ Sediment ☐ Irrigation ☐ Recreation ☐ Flood Control ☐ Drinking Water
						☐ Power Generation ☐ Other: MONE: ABANDONED
E	indinge and	Corrective Action				
	c. An EA d. An EA e. Subm dam s f. Routin g. Dam c i. Acces j. There or acc k. Acces and er	AP is required for HAP is recommended it narrative and addite, unless covered it is inspection logs where shall provide am did not appear to site appears to site appears to ses provided. It is no vehicular access provided. It is no dam is question mergency plans need a detailed narrative.	ligh Had ditional ditional diby ap were note for record to be record to be seen able and to record to reco	I dan I dan I info oprov ot in outin main atisfa the during the in	d Dams. Some regard or mation development on the inspection of the	on of the dam. a regular basis. Operational and emergency plans need to reflect this deficiency weather conditions and/or spillway overflows. Operational plans ciency or access provided. sponses taken, and any damages incurred. Dam owners are
_	require	ed to promptly advi stance or occurrer	ise the nces w	dep hich	partment o may adve	any sudden or unprecedented flood or unusual or alarming rsely affect the dam or reservoir.
Q E	🗹 n. Submi	t current Operatior t Site or Facility Ma ls and conduits.	ns and ap of th	Maii nis D	ntenance Dam which	Manual or Procedures for this dam / reservoir facility. identifies the location of major features including outlet works
Þ	0. <u>ACLE</u>	SS BY 4-WHEE	L DRI	VE	70 WITT-	IN ABOUT 100YARDS OF DAM
	he following	quirements: investigative study commended Pha	v(s) are			

Dam ID:	HI 00066				i		
		l					
Physica	al Dam Features: (Check	All Applicable. Pr	ovide description of It	tems Observed ar	nd/or Take Ph	otos. Indicate pho	to # in description.)
3. Rese	rvoir: Level during inspection	2-3	ft per	VISUAL	(gage /	other)	
	Normal Operating Level/Ran Descript	nge <u>vwknc</u>	₩N ft per		(gage /	other)	
			☐ Kept within norm				
	Sinkhole in Res.: ☐ # Ob	served:	Size:	by	in. Deep	Not Visible	☐ None Observed
	Staff Gage: Descript	on:					
	ective Actions: e. The staff gage needs of the staff gage was not on the reservoir. g. A sinkhole was observed identify the cause, risk the cause.	bserved at the ed in the upstr and appropria	reservoir. Provid ream reservoir. C ate action.	de some meth	od of quan		
1. Intak	The Works Description: ■ Number of Intakes				ncrete □ Ot	her	4
		lve □ Flow ca ersion □ Pump	n either be Shut off o □ Reservoir	• •			
Î		od ☐ Concret	Depth) Shape e □ L n either be Shut off o	RECT ined w/ Bypassed N	one		anoty outed
Corre	ings: a. The intake works were b. The intake works were c. The intake works appe d. The intake works appe e. The intake works appe e. The intake works appe	not inspected. not tested. ared to be in sared to be in fa ared to be in u	atisfactory condit air to poor conditions nsatisfactory con	ion, no correct on and require dition, urgent o	tive actions es corrective corrective a	s are required a e action. action is require	t this time. ed.
□ f	The intake works need	s maintenance	and/or repair. D	escription:			

Dai	n ID:		HI OOU	<u>, 6</u>	Inspection No:
	-				Date:
5.	Ups		am Slope: ope Protection	n: 🕍 None □ Dumped Rock □ Fitted Rip Rap □ Grouted Rip Rap □	ical Slope ±;) Liner □ Other:
		Er	osion:	□ Defect in Protection: Description: □ Gully (>6" deep) □ Loose soil w/ little vegetation □ Rut (<6") □ Gully (>6" deep) □	Not Visible ☐ None Observed
				Description:	A None observed
		Cr	racks:	☐ Parallel with crest ☐ Perpendicular to crest ☐ Slide visible ☐ N Description:	lot Visible None Observed
		Si	nkholes:	☐ # Observed: Size: and Dept Description:	
		Ve	egetation:	☐ None ☐ Low Ground Cover ☐ Bushes or Tall Grass ☐ Trees #	□ >6" & <20" □ >20"
	Corr	b. c. d.	The upstream The upstream The upstream Urgent correct tive Actions:	m slope was not inspected. m slope appeared to be in satisfactory condition, no corrective a m slope appeared to be in fair to poor condition and requires con m slope appeared to be in unsatisfactory condition and not expenditive action is required. ction needs maintenance or repair. Description:	rrective action.
		f.	Rut and/or Gu Description:	Sully erosion was observed on the slope, which requires mainter	nance and/or repair.
		g.	A crack was o Monitor the ar	observed on the slope, which requires further investigation to dearea and/or repair as required.	etermine the underlining cause.
		h.	A sinkhole wa Repair and mo	ras observed on the slope, which requires further investigation to monitor the area.	o determine the underlining cause.
	П	i.	The upstream maintain low to	m slope was not visible due to high grass and bush vegetation. to enable easy visual inspection.	Clear high vegetation and
	X	j.	Tree(s) were of failures, and corrective act of the tree and All repair work	e observed on the dam embankment. Trees have been identified can possibly cause sever damage to the embankment if they are ction is required to remove the tree hazards from the dam. According its root structure down to a 2" diameter and reconstructing the result is accomplished as per the requirements of licensed geometric the damaged area for signs of settlement and seepage.	re uprooted during a high winds. eptable remedies include removal e damaged embankment section
		k.			

Dan	n ID	:	HI00066	<u> </u>								Ins	spect	ion No:		····
			:									Da	te:			
												L				
6.	Cre	st:		Approxim	ate Crest \	Width:	20	ê								
		A	ccess:		□ Walking	***************************************			v. Surfa	ice / Wid	th / Usage:	SOIL	/osta	FIRAL	/midima	
		E	rosion:		soil w/ little	_						□ Not Vis	-	_ ^/	None Obse	·
					on:						,				110110 0000	vou
		С	racks:		with cres						visible	☐ Not Vis	sible	🗓 None	Observed	
				Description	on:											
		Si	inkholes:								in. Deep		sible	≦ None	Observed	
											•			***		
		V	egetation:	■ None	□ Low Gr	ound Cov	er D] Bushes	or Tall	Grass	☐ Trees #	£	□ <6	5" 🗆 >(6" & <20"	□ >20"
	Fine	din	ae.													
			The dam crest	t was no	t inspect	ed.										
			The dam crest				actor	v condi	tion n	o corre	ective act	ions are	reau	ired at t	thic time	
		C.	The dam crest	t appeare	d to be i	n fair to	pool	r condit	ion an	d reaui	ires corre	ective ac	roqu ction	iicu at t	, iio tiiio.	
		d.	The dam crest	t appeare	d to be i	n unsat	isfact	tory co	ndition	and no	ot expect	ted to fu	Ifill its	intende	ed functio	n
			Urgent correct	tive action	າ is requ	ired.		•			• " "					
	Cor	rec	tive Actions:													
		e.	Access along	the crest	was sati	sfactory	/ .									
		f.	Access along	the crest	was not	possible	e. D	escripti	on:							
		g.	Rut and/or Gu	ılly erosio	n was ob	oserved	on th	ne cres	t, whic	h requ	ires mair	ntenance	e and	or repa	ir.	
		h	Description:						£()							
	LJ	11.	A crack was of Monitor the are	ea and/or	repair a	est, wni is requir	icn re red	equires	turtne	r invest	tigation to	o detern	nine ti	ne unde	rlining ca	use.
		i.	A sinkhole was					n reauir	es fur	her inv	estigatio	n to det	ermin	e the ur	nderlinina	Callee
			Repair and mo	onitor the	area.											
		j. :	Portions of the	e crest we	re not vi	sible du	e to	high gr	ass ar	nd bush	vegetati	ion. Cle	ar hig	h veget	tation and	1
		L	maintain low to													
	L1	κ.	Tree(s) were of failures, and ca	an possib	along the	e dam d Sever (rest. dama	rees to to	nave he em	been ic hankm	entified	as the p	robat	oly cause	e of pipin	g sinda
			Corrective acti	ion is reqi	uired to r	remove	the to	ree haz	ards f	rom the	e dam. <i>A</i>	Acceptat	ole rei	medies	include re	emoval
			of the tree and	d its root s	tructure	down to	o a 2'	' diame	ter an	d recor	nstructing	the da	mage	d embai	inkment s	ection
			All repair work	shall be	accompl	ished as	s per	the rec	guirem	ents of	f licensed	d aeotec	hnica	l or stru	ictural en	gineer.
		ı	Routinely mon	intor the da	amageu	area ioi	sigr	is of se	ttieme	ent and	seepage	€.				
	_	1.					· · · · · · · · · · · · · · · · · · ·									
			NOTE: SE	EL APE	PPROX	2'-1	3′	IN 1	DIAMI	STER	EXIS	75	IN	CRE	ST	
										6		106			*	
			A v.	. N 198 / 2	U 10 8	75 B 11 L	1	I g y g magain	9 8	13 4 4 4	1.3	1116-	E then	James Bu	- Marie Brown Brown	

AND RUNS PARALLEL WITH DAM. PIPE IS EXPOSED

IN BREACHED SPILLWAY SECTION.

Dam II	D:	HI 00066							F	Inchoo	tion No.	'
											tion No:	
										Date.		
·		-4										
7. 00		stream Slope:							(Typic	al Slop	e ±:)	
		ccess:		roadway along						way to ou	tlet works 📆 None Obse	rved
		lope Protection: rosion:								ncrete		
	_	1081011.		soil w/ little ve						Visible	☐ None Observed	
	_	manles.		on: <u>SEV</u>								
	C	racks:		el with crest					9 4	Visible	☐ None Observed	
	_	tantata a ta		on:								
	5	inkholes:		in. Wide	x	in. Long) ×	in. Dee	p 🗐 No	Visible	☐ None Observed	
			•	on:								
	V	egetation:	□ None	☐ Low Groun	nd Cover	Bushes	or Tall Gra	ass 🗏 Tre	es # <u> </u>	<u> </u>	6" □ >6" & <20" □	>20"
	_		Descripti	on:								
	S	eepage:		ot Number 1								
				Vegetation		t or Muddy G					☐ None Observed	
			Water Cl	g, Description: arity: □ Clear	- C Son	no partiales	☐ Mudd					
									otner:			····
				on: ot Number 2								
				Vegetation	∏ Wet	t or Muddy Gi	ound Di	Pondina Wat	ter 🗆 Not	Vicible	El None Observed	
				g, Description:				onding vval	iei Li Noi	VISIDIE	☐ None Observed	
			Water Cl	arity: Clear	□ Son	ne particles	□ Mudd	у	☐ Oth	er:		
			Description	on:			******					
Fir	ndin	gs:	•									
		The downstrea										
	b.	The downstrea	m slope	appeared t	o be in	satisfacto	ry condit	ion, no co	rrective	actions	are required at this til	me.
	⊌ C.	The downstrea	m slope	appeared to	o be in	fair to poc	r conditi	on and red	quires c	orrective	e action.	
	a.	function. Urge	m slope	appeared to	o be in	unsatisfac	tory con	dition and	I not exp	ected to	fulfill its intended	
0-			in Corre	clive action	is requ	ii eu.						
		tive Actions:	n noods	maintanan		onniu Des	- mi - 4:					
	f.	Slope protectio Rut and/or Gull	v erosio	n was ohse	rved o	epair. Des n the clone	cription:	roquiroo m			1/	
_	••	Description:		n was obse	ived o	ii tiie siope	, willCit i	requires ii	namtena	nce and	n/or repair.	
	g.	A crack was ob	served	on the slope	e, which	h requires	further ir	vestigatio	n to det	ermine	the underlining cause	
		ivionitor the are	a and/o	r repair as re	equired	d.						
	h.	A sinkhole was	observe	ed on the slo	ope, wl	hich require	es furthe	r investiga	ation to	determi	ne the underlining cau	ıse.
ìmi		Repair and moi	nitor the	area.								
E	1.	maintain low to	ım siope enable	e was not visual	sible di	ue to high (grass an	d bush ve	getation	. Clear	high vegetation and	
154	a.						rees hav	ra haan id	ontifical		probably cause of pipi	
***	, J.	failures, and ca	n possil	oly cause se	ver da	mage to th	e embar	nkment if t	thev are	as me p	ed during a high winds	ng :
		Corrective action	on is req	uired to rem	nove th	e tree haza	ards fron	n the dam.	. Accep	table re	medies include remov	/al
		or the tree and	its root s	structure do	wn to a	a 2" diamet	er and re	econstruct	tina the	damage	d embankment section	าก
		Routinely monit	snall be for the d	accomplish	ed as p	per the req	uirement	ts of licens	sed geo	technica	al or structural engine	er.
	h.	Seepage/Pondi	na wate	r was obser	ved N	Monitor and	l condu	anu seepa et further i	age. Invostica	tion to l	ocate the source of	
		water and exter	nt of any	possible ha	azardo	us or deve	opina co	ondition.	rivestiga	iliOH (O I	ocate the source of	
	i.	Seepage was o	bserved	I flowing and	d partic	les were o	bserved	to be rem	oved by	the flow	w. Take immediate	
		action to stop tr	ne loss c	of soil from t	he emi	bankment.	Conduc	t further in	nvestiga	tion to c	letermine the underlin	ning
Verif.	:	cause and take	correcti	ve action. I	vionitor	the area.						-
	J. V	The slope was v	very ste	ep, around a	a 1 to 1	slope, fur	tner stud	ly is requi	red to ve	erify slop	pe stability.	
니	r.				· · · · · · · · · · · · · · · · · · ·	······································	····					

,	ments/Toe: Erosion: Cracks: Vegetation: Seepage:	Date: □ Loose soil w/ little vegetation □ Rut (<6") □ Gully (>6" deep) □ Not Visible □ None Observed □ Parallel with crest □ Perpendicular to crest □ Slide visible □ Not Visible □ None Observed □ Description: □ None □ Low Ground Cover □ Bushes or Tall Grass □ Trees # □ 1
,	Erosion: Cracks: Vegetation:	Description: Parallel with crest ☐ Perpendicular to crest ☐ Slide visible ☐ Not Visible ☐ None Observed Description: ☐ None ☐ Low Ground Cover ☐ Bushes or Tall Grass ☐ Trees # ☐ Cover ☐ >6" & <20" ☐ >20
,	Erosion: Cracks: Vegetation:	Description: Parallel with crest ☐ Perpendicular to crest ☐ Slide visible ☐ Not Visible ☐ None Observed Description: ☐ None ☐ Low Ground Cover ☐ Bushes or Tall Grass ☐ Trees # ☐ Cover ☐ >6" & <20" ☐ >20
,	Erosion: Cracks: Vegetation:	Description: Parallel with crest ☐ Perpendicular to crest ☐ Slide visible ☐ Not Visible ☐ None Observed Description: ☐ None ☐ Low Ground Cover ☐ Bushes or Tall Grass ☐ Trees # ☐ Cover ☐ >6" & <20" ☐ >20
,	Cracks: Vegetation:	Description: Parallel with crest ☐ Perpendicular to crest ☐ Slide visible ☐ Not Visible ☐ None Observed Description: ☐ None ☐ Low Ground Cover ☐ Bushes or Tall Grass ☐ Trees # ☐ Cover ☐ >6" & <20" ☐ >20
,	Vegetation:	□ Parallel with crest □ Perpendicular to crest □ Slide visible □ Not Visible □ None Observed Description: □ None □ Low Ground Cover □ Bushes or Tall Grass □ Trees # □ CALL □ C6" □ >6" & <20" □ >20
,	Vegetation:	Description: Description:
	•	□ None □ Low Ground Cover ■ Bushes or Tall Grass □ Trees # ← CALL □ CO □ >6" & <20" □ >20
	•	
;	Seepage:	Dogarintian.
;	Seepage:	Description:
		Seep Spot Number 1
		☐ Green Vegetation ☐ Wet or Muddy Ground ☐ Ponding Water ☐ Not Visible ☐ None Observed
		☐ Flowing, Description: Water Clariby: ☐ Clear ☐ Sema porticles ☐ Multi-
		Water Clarity: ☐ Clear ☐ Some particles ☐ Muddy ☐ Other:
		Description:
		Seep Spot Number 2
		☐ Green Vegetation ☐ Wet or Muddy Ground ☐ Ponding Water ☐ Not Visible ☐ None Observed
		☐ Flowing, Description:
		Water Clarity: ☐ Clear ☐ Some particles ☐ Muddy ☐ Other:
		Description:
□ c	d. The abutmer Urgent corre	nts/toe appeared to be in fair to poor condition and requires corrective action. nts/toe appeared to be in unsatisfactory condition and not expected to fulfill its intended function. ctive action is required. tion needs maintenance or repair. Description:
□ f.	. Rut and/or G	ully erosion was observed, which requires maintenance and/or repair.
□ g	. A crack was	observed along the abutments/near the toe, which requires further investigation to determine the
	underlining c	ause. Monitor the area and/or repair as required.
)D h	. The abutmen	at/toe area was not visible due to high grass and bush vegetation. Clear high vegetation and
b i.	maintain low	to enable easy visual inspection.
i.	failures, and Corrective ac of the tree an All repair wor	observed along the abutment/toe. Trees have been identified as the probably cause of piping can possibly cause sever damage to the embankment if they are uprooted during a high winds. It is required to remove the tree hazards from the dam. Acceptable remedies include removal in its root structure down to a 2" diameter and reconstructing the damaged embankment section. It is shall be accomplished as per the requirements of licensed geotechnical or structural engineer. In it is not structural engineer.
□ j.	Seepage/Por	nding water was observed. Monitor and conduct further investigation to locate the source of tent of any possible hazardous or developing condition.
□ k.	 Seepage was action to stop 	s observed flowing and particles were observed to be removed by the flow. Take immediate the loss of soil from the embankment. Conduct further investigation to determine the underlining secorrective action. Monitor the area.

Dai	m ID	:)19000TH	0						Inspect Date:	ion No:		1
9	Out	tlet \	Works:						L				
٠.	Ou		Ivert / Pipe			al de la companya de	3EE 54	3-7/GYN			SF 1114	- W.	U LINED
			Type / Size:	GT	E VALISE			NSURE	6 F	512E	SF 1184		7.45'D (* N
			Culvert:	☐ Concrete	☐ Masonry	Į	unlined ea	rth 🕾 🗐	☐ Other			-	
			Pipe:	□ DIP	☐ Corrugated	Metal [PVC 🗆	HDPE	☐ Concre		Other		
			Control Type:	☐ Gate	■ Valve	☐ Other _							
			Location:	🗖 Control on	Upstream side	□ Control	on Downstr	eam side	eu Neu	/N.			
			Seepage:	☐ Flowing, □	Upstream side getation □ V escription:				/ater □ N	ot Visible	☐ None Obs	erved	
					: 🗆 Clear 🗆 S			•	Other:				
	Fin	ding	e.	Description:			·····						
			The outlet wor	ks were not	inspected.								
	b		The outlet wor										
		C.	The outlet wor	ks appeare	d to be in sat	isfactory co	ondition, r	o correc	tive actio	ns are re	quired at thi	s time.	
		d.	The outlet worl	ks appeare	d to be in fair	to poor co	ndition ar	d require	s correc	tive action	٦.		
		e.	The outlet worl	ks appeare	d to be in uns	atisfactory	conditior	and not	expecte	d to fulfill	its intended	function	٦.
			Urgent correcti	ive action is	requirea.								
	Cor	rect	ive Actions:										
		1	Seepage/Pond of any possible	nazardous	or developir	ng condition	n.						
			Seepage was of action to stop to corrective action and a common and a	ne loss of s on. Monitor	ioil. Conduct the area. Fa	further inv ilures cau	estigatior/ sed bv se	to deter	mine the	underlini	nd cause ar	nd take	
	回	h. '	Were not visibl	e due to hig				ear high	vegetati	on and ma	aintain low t	o enable	e
			easy visuai ins	pection.									
		(Tree(s) were of ailures, and cate of the tree and All repair work	on possibly on is require its root stru shall be acc	cause sever ed to remove octure down to complished a	damage to the tree ha o a 2" dian s per the r	the emba azards fro neter and requireme	ankment m the da reconstrunts of lice	if they ar m. Acce acting the ensed ge	e uproote eptable re e damage	d during a h medies included and medies includ	nigh win ude rem	ds. oval tion
	П		Routinely moni レルシレス &								. 20.		
	h3	j	ZKRIGATI:	em hive	RJON DI			- OUT 1.5	<u> </u>	<u>'60 CA</u>	THE ARE	CONNE	CATA
					OUTLET	· Worl	-	TE VA	><	AKELY	USED.	teo k	164 of 1
						10	MLINED	64271				brea are	:HED A
				microsomer ^{al}			22E5						
				risks political	- K	Y V KIGATIK					J ,		
						IP EZ		INLE	Jun J		<u> </u>	San	
					V2	VP SU		(GATI	E VALVE)			

עו amעו	: <u> </u>						ln:	spection No	:	
							Da	ate:		747
							L			
10. Sı	pillway: BREACH	IS ACT	NG AS	SPILL	NAY					
**************************************	Туре:		□ Culvert/Pi							
		Descriptio	n:AffR	04 10	Yw (Borno	N x 15 124	. × 25	W (TOP)		
	Dimension:			_ft. In	vert elevation:	* 15' BELOVE	ft. per staff	gage		
	Slope Protection:	None	☐ Grass	□ Dumpe		itted Rip Rap		ed Rip Rap	☐ Concre	te
		□ Defect i	n Protection:	Description	n:			•		
	Approach:		☐ High Ve			Other:				
	Erosion:	☐ Scour	☐ Gully	☐ Headc		lot Observed				
		Description	n:							
	Vegetation:	None	□ Low Gro	und Cover	☐ Bushes or T	all Grass 🛮 Tree	es #	_ □ <6" □ >	>6" & <20"	□ >20"
		Description	n:			***************************************	······································			
Fin	dings:	nnoarod	to bo in or	tiofooton	aanditian u		.			
	a. The Spillway ab. The Spillway a	nneared	to be in fa	ir to poor	condition an	t requires serv	tions are	required at tr	iis time.	
	c. The Spillway a	nneared	to be in ia	n io poor	ory condition	and not expect	tod to fulf	ION. ill ita intende:	ما المسلمة	ojože ses
	corrective acti	on is requ	ired.	isalisiaci	ory condition	and not expec	ted to full	iii its intended	u lunction.	Urgent
		-								
Col	rrective Actions:	on noode	maintanar	200 or ron	oir Doggrind	i				
						ion:				
	f. Severe scour					stenance and/	or repair			
	Description:	5, 00,011 11	40 ODOC: V	ca willon	requires mail	iteriarice and/t	л терап.			
	g. A headcut was	observe	d downstre	eam of the	e spillway. C	orrective / mitig	gative ac	tion is require	ed to preve	nt this
**	problem from	moving up	ostream.							
	h. Trees are unac	ceptable	in the spill	way chan	nel and appr	oach. Take co	orrective a	action to addr	ess the wo	oody
a	vegetation pro								,	
, <u>, , , , , , , , , , , , , , , , , , </u>	 i. Unclear if spill capacity and ta 	ake corre	ctive action	n as requi	red.	pass the proba	abie maxi	mum flood, N	verity spilit	way
囱	j. <u>SMOULN</u>					LA A A				
44 D	own Stream Chani									
ii. De	Name:	iei:								
		. C 51								
	Downstream:						rainage-way	A.		
	Items along Strea			☐ Road	☐ Houses	☐ Town		Not Inspect	ted	
	Description:									
Fine	dings:									
40	a. The downstrea	ım channe	el was not	inspected	i .					
	b. The downstrea	ım channe	el appeare	d to be in	satisfactory	condition, no c	orrective	actions are r	equired at	this
	time.									
	c. The downstrea									
	 d. The downstrea function. Urge 	m channe	ei appeare	d to be in	unsatisfacto	ry condition an	id not exp	ected to fulfi	II its intend	ed
	ranonon. Orge	in contect	ive action	is require	u.					
Cor	rective Actions:									
	e									

				Date:	UII NO	:
Additional Comments: On the date of this limit dam. No assurance ca and other factors may a	in be made rega	arding the dam's	ared to be no im condition after tl	imediate threat to his date. Subsec	o the safety quent advers	of the se weathe
- INSPECTOR		OLD RESER	VOIR IS	SANDONED	######################################	oods to eccentry (from any six testers of a colorons) to years (free fig. 1) to a party
- FOR PROF						
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		akki sii kirimitii miraanii kirki kaanaan qaanoo ji sii kirii kirii kirii kirii kirii kaaniinka kaanaan qaa k	en e			**************************************
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Limitations and Intent of this Dam Safety Inspection:

HIOOOLG

Dam ID:

This Dam Safety Inspection was conducted to assess the general overall condition of the reservoir/dam, identify visible deficiencies, and recommend areas of for monitoring, additional investigative studies and corrective actions. The inspection is based only on visible features/areas of the dam on the day of inspection. This inspection is not a formal phase I or phase II dam safety inspection and does not include a review or evaluation from each specialist of an inspection team, such as a geologists, civil, geotechnical, structural, or hydraulics engineer. The owner should verify the findings of this report and take corrective actions. The owner may submit to the State alternative corrective actions that are certified by a licensed professional engineer in the State of Hawaii experienced in the design and construction of dams. This inspection does not relieve the owner/operator from their responsibility to conduct routine inspections, maintenance, repairs, modifications, monitoring, documentation, and/or investigative studies. The inspection was conducted under the authority of the Hawaii Revised Statures Chapter 179D, and Hawaii Administrative Rules, Title 13, Chapter 190, titled "Dams and Reservoirs". Questions regarding this inspection should be forwarded to the Hawaii State Dam Safety Program; PO Box 373; Honolulu, Hawaii 96809; Ph. (808) 587-0236.